

FORM HDP-1449 (Based on Form PTO-1449)

ATTORNEY DOCKET NO.

SERIAL NO.

5074A-000057

10/087,288

PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

David A. Simon

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.	P4K	Re. 35,025	08/1995	Anderton		
2.		1,576,781	03/1926	Phillips		
3.		1,735,726	11/1929	Bornhardt		
4.		2,407,845	09/1946	Nemeyer		
5.		2,650,588	09/1953	Drew		
6.		2,697,433	12/1954	Sehnder		
7.		3,016,899	01/1962	Stenvall		
8.		3,017,887	01/1962	Heyer		
9.		3,061,936	11/1962	Dobbeleer		
10.		3,073,310	01/1963	Mocarski		
11.		3,294,083	12/1966	Alderson		
12.		3,367,326	02/1968	Frazier		
13.		3,577,160	05/1971	White		
14.		3,702,935	11/1972	Carey et al.		
15.		3,704,707	12/1972	Halloran		
16.		3,941,127	03/1976	Froning		
17.		4,037,592	07/1977	Kronner		
18.		4,052,620	10/1977	Brunnett		
19.		4,117,337	09/26/1978	Staats		
20.		4,202,349	05/1980	Jones		
21.	WCH	4,358,856	11/09/1982	Stivender et al.		

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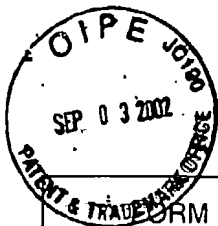
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Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
22.	DLK	4,368,536	01/1983	Pfeiler		
23.		4,403,321	09/1983	DiMarco		
24.		4,418,422	11/1983	Richter et al.		
25.		4,485,815	12/1984	Amplatz		
26.		4,543,959	10/01/1985	Sepponen		
27.		4,621,628	11/1986	Bludermann		
28.		4,625,718	12/1986	Olerud et al.		
29.		4,651,732	03/24/1987	Frederick		
30.		4,653,509	03/1987	Oloff et al.		
31.		4,706,665	11/17/1987	Gouda		
32.		4,722,056	01/26/1988	Roberts et al.		
33.		4,722,336	02/1988	Kim et al.		
34.		4,727,565	02/23/1988	Ericson		
35.		4,737,921	04/12/1988	Goldwasser et al.		
36.		4,750,487	06/1988	Zanetti		
37.		4,771,787	09/20/1988	Wurster et al.		
38.		4,791,934	12/20/1988	Brunnett		
39.		4,797,907	01/1989	Anderton		
40.		4,803,976	02/1989	Frigg et al.		
41.	DLK	4,821,206	04/11/1989	Arora		

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U.S. PATENT DOCUMENTS

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42.	pcr	4,845,771	07/1989	Wislocki et al.		
43.		4,991,579	02/12/1991	Allen		
44.		5,013,317	05/1991	Cole et al.		
45.		5,027,818	07/02/1991	Bova et al.		
46.		5,030,222	07/1991	Calandruccio et al.		
47.		5,031,203	07/1991	Trecha		
48.		5,059,789	10/22/1991	Salcudean		
49.		5,079,699	01/07/1992	Tuy et al.		
50.		5,094,241	03/10/1992	Allen		
51.		5,097,839	03/24/1992	Allen		
52.		5,107,843	04/1992	Aarnio, et al.		
53.		5,119,817	06/09/1992	Allen		
54.		5,142,930	09/01/1992	Allen et al.		
55.		5,178,164	01/12/1993	Allen		
56.		5,178,621	01/1993	Cook et al.		
57.		5,186,174	02/1993	Schlondorff et al.		
58.		5,198,877	03/30/1993	Schulz		
59.		5,211,164	05/18/1993	Allen		
60.		5,212,720	05/1993	Landi et al.		
61.	pcr	5,219,351	06/1993	Teubner et al.		

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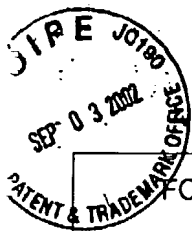
U.S. PATENT DOCUMENTS

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62.	DLA	5,233,990	08/1993	Barnea		
63.		5,249,581	10/1993	Horbal et al.		
64.		5,251,127	10/1993	Raab		
65.		5,295,483	03/22/1994	Nowacki et al.		
66.		5,305,203	04/1994	Raab		
67.		5,309,913	05/10/1994	Kormos et al.		
68.		5,320,111	06/1994	Livingston		
69.		5,333,168	07/1994	Fernandes et al.		
70.		5,368,030	11/29/1994	Zinreich et al.		
71.		5,383,454	01/24/1995	Bucholz		
72.		5,383,454	01/1995	Bucholz		
73.		5,389,101	02/1995	Heilbrun et al.		
74.		5,399,146	03/21/1995	Nowacki et al.		
75.		5,400,384	03/1995	Fernandes et al.		
76.		5,402,801	04/04/1995	Taylor		
77.		5,408,409	04/1995	Glassman et al.		
78.		5,426,683	06/1995	O'Farrell, Jr., et al.		
79.		5,426,687	06/1995	Goodall et al.		
80.		5,427,097	06/1995	Depp		
81.	DLA	5,444,756	08/1995	Pai et al.		

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Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
82.	DLA	5,446,548	08/1995	Gerig et al.		
83.		5,447,154	09/05/1995	Cinquin et al.		
84.		5,448,610	09/1995	Yamamoto et al.		
85.		5,478,341	12/1995	Cook et al.		
86.		5,478,343	12/1995	Ritter		
87.		5,483,961	01/16/1996	Kelly et al.		
88.		5,490,196	02/06/1996	Rudich et al.		
89.		5,494,034	02/27/1996	Schlondorff et al.		
90.		5,494,034	02/1996	Schlondorff et al.		
91.		5,503,416	04/1996	Aoki et al.		
92.		5,515,160	05/07/1996	Schulz et al.		
93.		5,517,990	05/21/1996	Kalfas et al.		
94.		5,531,227	07/02/1996	Schneider		
95.		5,531,520	07/02/1996	Grimson et al.		
96.		5,568,809	10/29/1996	Ben-haim		
97.		5,572,999	11/12/1996	Funda et al.		
98.		5,583,909	12/1996	Hanover		
99.		5,588,430	12/31/1996	Bova et al.		
100.		5,596,228	01/1997	Anderton et al.		
101.	DLA	5,603,318	02/1997	Heilbrun et al.		

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Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
102.	DL	5,617,462	04/1997	Spratt		
103.		5,617,857	04/08/1997	Chader et al.		
104.		5,619,261	04/1997	Anderton		
105.		5,622,170	04/22/1997	Schulz		
106.		5,627,873	05/1997	Hanover et al.		
107.		5,630,431	05/20/1997	Taylor		
108.		5,638,819	06/17/1997	Manwaring et al.		
109.		5,642,395	06/1997	Anderton et al.		
110.		5,647,361	07/15/1997	Damadian		
111.		5,662,111	09/02/1997	Cosman		
112.		5,664,001	09/1997	Tachibana et al.		
113.		5,676,673	10/14/1997	Ferre et al.		
114.		5,682,886	11/04/1997	Delp et al.		
115.		5,690,108	11/1997	Chakeres		
116.		5,695,500	12/09/1997	Taylor et al.		
117.		5,695,501	12/09/1997	Carol et al.		
118.		5,711,299	01/27/1998	Manwaring et al.		
119.		5,715,836	02/10/1998	Kliegis et al.		
120.	DL	5,748,767	05/1998	Raab		
121.	DL	5,749,362	05/12/1998	Funda et al.		

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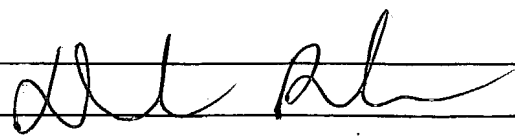
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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
122.	✓ LK	5,755,725	05/26/1998	Druais	1	
123.		5,769,789	06/23/1998	Wang et al.		
124.		5,769,861	06/1998	Vilsmeier		
125.		5,772,594	06/1998	Barrick		
126.		5,795,294	08/18/1998	Luber et al.		
127.		5,799,055	08/1998	Peshkin et al.		
128.		5,800,535	09/01/1998	Howard, III		
129.		5,802,719	09/1998	O'Farrell, Jr., et al.		
130.		5,823,192	10/1998	Kalend et al.		
131.		5,823,958	10/20/1998	Truppe		
132.		5,828,725	10/27/1998	Levinson		
133.		5,828,725	10/27/1998	Levinson		
134.		5,833,608	11/10/1998	Acker		
135.		5,834,759	11/10/1998	Glossop		
136.		5,836,954	11/1998	Heilbrun et al.		
137.		5,848,967	12/15/1998	Cosman		
138.		5,851,183	12/1998	Bucholz		
139.		5,868,675	02/09/1999	Henrion et al.		
140.		5,871,445	02/1999	Bucholz		
141.	DCN	5,871,487	02/16/1999	Warner et al.		

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
142.	DLA	5,891,034	04/1999	Bucholz		
143.		5,891,157	04/06/1999	Day et al.		
144.		5,904,691	05/18/1999	Barnett et al.		
145.		5,920,395	07/06/1999	Schulz		
146.		5,921,992	07/13/1999	Costales et al.		
147.		5,923,727	07/1999	Navab		
148.		5,951,475	09/14/1999	Gueziec et al.		
149.		6,016,439	01/2000	Acker		
150.		6,050,724	04/2000	Schmitz et al.		
151.		6,139,183	10/2000	Graumann		
152.		6,149,592	11/2000	Yanof et al.		
153.	DLA	6,167,296	12/2000	Shahidi		

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Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.	DLA	WO 98/38908	09/11/1998	PCT			
2.		WO 94/24933	11/10/1994	PCT			
3.		WO 94/23647	10/27/1994	PCT			
4.		WO 96/11624	4/25/1996	PCT			
5.	DLA	WO 88/09151	12/01/1988	PCT		Abstract	

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6.	DLK	WO 91/07726	05/30/1991	PCT			
7.		WO 92/06645	04/30/1992	PCT			
8.		WO 91/04711	04/18/1991	PCT		Abstract	
9.		EP 0 581 704 B1	07/27/1993	European Pat. Office		U.S. Equiv	
10.		2417970	02/20/1979	France		U.S. Equiv	
11.		0350996 A1	01/1990	European Pat. Office			
12.		964149	03/1975	Canada			
13.		DE 3042343 A1	06/1982	Germany			X
14.	DLK	WO 9103982	04/1991	WIPO			

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1.	DLK	Adams, L., Knepper, A., Krybus, W., Meyer-Ebrecht, D., Pfeifer, G., Ruger, R., Witte, M., Orientation Aid for Head and Neck Surgeons, Innov. Tech. Biol. Med., Vol. 13, No. 4, 1992, pp. 409-424.
2.		Ali Hamadeh et al., "Automated 3-Dimensional Computer Tomographic and Fluoroscopic Image Registration," Computer Aided Surgery (1998), 3:11-19.
3.		Ali Hamadeh et al., "Towards Automatic Registration Between CT and X-ray Images: Cooperation Between 3D/2D Registration and 2D Edge Detection," MRCAS '95, pages 39-46.
4.	PCB	Andre P. Guezic et al., "Registration of Computer Tomography Data to a Surgical Robot Using Fluoroscopy: A Feasibility Study," Computer Science/Mathematics, Sept 27, 1996, 6 pages.

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5.	242	Barrick, Frederick E., et al., "Prophylactic Intramedullary Fixation of the Tibia for Stress Fracture in a Professional Athlete," Journal of Orthopaedic Trauma, Vol. 6, No. 2, pp. 241-244 (1992).
6.		Barrick, Frederick E., et al., "Technical Difficulties with the Brooker-Wills Nail in Acute Fractures of the Femur," Journal of Orthopaedic Trauma, Vol. 6, No. 2, pp. 144-150 (1990).
7.		Batnitzky, S., Price, H.I., Lee, K.R., Cook, P.N., Cook, L.T., Fritz, S.L., Dwyer, S.J., Watts, C., Three-Dimensional Computer Reconstructions of Brain Lesions from Surface Contours Provided by Computed Tomography: A Prospectus, Neurosurgery, Vol. 11, No. 1, Part 1, 1982, pp. 73-84.
8.		Bouazza-Marouf et al., "Robotic-Assisted Internal Fixation of Femoral Fractures", IMECHE.pp.51-58 (1995)
9.		C. Brack et al., "Accurate X-ray Based Navigation in Computer-Assisted Orthopedic Surgery," CAR '98, pages 716-722.
10.		Champleboux, G., Utilisation de Fonctions Splines pour la Mise au Point D'un Capteur Tridimensionnel sans Contact, Quelques Applications Medicales, July 1991.
11.		Cinquin, P., Lavallee, S., Demongeot, J., Computer Assisted Medical Interventions, International Advanced Robotics Programme, September 1989, pp. 63-65.
12.		Clarysse, P., Gibon, D., Rousseau, J., Blond, S., Vasseur, C., Marchandise, X., A Computer-Assisted System for 3-D Frameless Localization in Stereotaxic MRI, IEEE Transactions on Medical Imaging, Vol. 10, No. 4, December 1991, pp. 523-529.
13.		E. Frederick Barrick, Journal of Orthopaedic Trauma: "Distal Locking Screw Insertion Using a Cannulated Drill Bit: Technical Note," Raven Pres, Vol. 7, No. 3, 1993, pp. 248-251.
14.		Foley, J.D., Van Dam, A., Fundamentals of Interactive Computer Graphics, The Systems Programming Series, Chapter 7, July 1984, pp. 245-266.
15.		Foley, K.T., Smith, K.R., Bucholz, R.D., Image-guided Intraoperative Spinal Localization, Intraoperative Neuroprotection, Chapter 19, 1996, pp. 325-340.
16.	24	Foley, K.T., The SteathStation. Three-Dimensional Image-Interactive Guidance for the Spine Surgeon, Spinal Frontiers, April 1996, pp. 7-9

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17.	<i>DCN</i>	G. Selvik, et al., "A Roentgen Stereophotogrammetric System," Acta Radiologica Diagnosis, 1983, pp. 343-352.	
18.		Gildenberg, P.L., Kaufman, H.H. Murthy, K.S., Calculation of Stereotactic Coordinates from the Computed Tomographic Scan, Neurosurgery, Vol. 10, No. 5, May 1982, pp. 580-586.	
19.		Gonzalez, R.C., Digital Image Fundamentals, Digital Image Processing, Second Edition, 1987, pp. 52-54.	
20.		Hatch, J.F., Reference-Display System for the Integration of CT Scanning and the Operating Microscope, Thesis, Thayer School of Engineering, October 1984, pp. 1-189.	
21.		Henderson, J.M., Smith, K.R. Bucholz, R.D., An Accurate and Ergonomic Method of Registration for Image-guided Neurosurgery, Computerized Medical Imaging and Graphics, Vol. 18, No. 4, July-August 1994, pp. 273-277.	
22.		Hoerenz, P., The Operating Microscope I. Optical Principles, Illumination Systems, and Support Systems, Journal of Microsurgery, Vol. 1, 1980, pages 364-369.	
23.		Hounsfield, G.N., Computerized transverse axial scanning (tomography): Part 1. Description of system, British Journal of Radiology, Vol. 46, No. 552, December 1973, pp. 1016-1022.	
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